TECHNICAL DATA

PROTECTIVE FABRICS

Certificate of Compliance

PRODUCT: **LOT#:** 94578 **CUSTOMER:**

IDENTIFICATION:
SPECIFICATION: **YARDS:** 543.98
COMPLETION DATE: 01/19/2018 **CONTRACT:**

	A	Lot Avg	Requirements
Abrasion Resistance (Stoll) Fill			
Cycle			
1	1542.0		
2	1291.0		
3	1549.0		
4	1410.0		
5	1404.0		
	1439.2	1439.2	25 cycles min
Abrasion Resistance (Stoll) Warp			
Cycle			
1	1157.0		
2	1152.0		
3	1312.0		
4	1408.0		
5	1287.0		
	1263.2	1263.2	25 cycles min
Breaking Strength FTMS 191 5100.1 Fill			
Breaking Strength Fill			
1	130.3		
2	126.0		
3	130.5		
4	128.7		
5	129.2		
	128.9	128.9	60 lbs. min

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	A	Lot Avg	Requirements
Breaking Strength FTMS 191 5100.1 Warp			
Breaking Strength Warp			
1	192.3		
2	194.8		
3	196.4		
4	192.2		
5	193.8		
	193.9	193.9	60 lbs. min
Colorfastness to Crocking FTMS 191A 5651.1			
Color			
1	Royal		
Dry Rating			
1	4-5		3 min
Wet Rating			
1	4		3 min
Colorfastness to Laundering FTMS 191A 5610.1			
Color			
1	Royal		
Cycles			
1	1		
Laundering Shade Change			
1	4		3.5 min
Colorfastness to Xenon AATCC 16.3			
Color			
1	Royal		

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	A	Lot Avg	Requirements
Colorfastness to Xenon AATCC 16.3			
Hours			
1	20		
Xenon Shade Change			
1	3-4		4 min
Elmendorf Tear FTMS 191 5132.1 Fill Dry			
Fill Tear			
1	8.9		
2	10.0		
3	9.0		
4	8.7		
5	9.0		
	9.1	9.1	3.0 lbs. min
Elmendorf Tear FTMS 191 5132.1 Warp Dry			
Warp Tear			
1	14.6		
2	15.0		
3	13.2		
4	12.3		
5	13.2		
	13.7	13.7	3.5 lbs. min
Heat Aging MIL-C-24500A 4.5.1			
After Ovening Rating			
1	4		4 min
Before Ovening Rating			
1	5		4 min

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	A	Lot Avg	Requirements
Laundry Shrinkage AATCC 135 5x wash			
Fill Shrinkage			
1	-3.1		
2	-2.4		
3	-2.3		
	-2.6	-2.6	4.0% max
Warp Shrinkage			
1	-0.4		
2	-0.3		
3	-0.7		
	-0.5	-0.5	4.0% max
Vertical Flame FTMS 191 5903.1 Fill			
After Flame			
1	0.0		
2	0.0		
3	0.0		
4	0.0		
5	0.0		
	0.0	0.0	1 sec max
After Glow			
1	2.8		
2	3.0		
3	3.2		
4	3.2		
5	3.1		
	3.1	3.1	25.0 sec max

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	A	Lot Avg	Requirements
Vertical Flame FTMS 191 5903.1 Fill			
Char Length			
1	1.8		
2	2.1		
3	2.1		
4	2.5		
5	2.5		
	2.2	2.2	5.0 in max
Melt/Drip			
1	No Melt/Drip		
2	No Melt/Drip		
3	No Melt/Drip		
4	No Melt/Drip		
5	No Melt/Drip		
Vertical Flame FTMS 191 5903.1 Fill 5X			
After Flame			
1	0.0		
2	0.0		
3	0.0		
4	0.0		
5	0.0		
	0.0	0.0	1 sec max

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		A	Lot Avg	Requirements
Vertical Flame FTMS 191 5903.1 Fill 5X				
After Glow				
	1	14.7		
	2	15.6		
	3	15.9		
	4	16.6		
	5	12.4		
		15.0	15.0	25.0 sec max
Char Length				
	1	2.5		
	2	2.4		
	3	2.5		
	4	2.2		
	5	2.0		
		2.3	2.3	5.0 in max
Melt/Drip				
	1	No Melt/Drip		
	2	No Melt/Drip		
	3	No Melt/Drip		
	4	No Melt/Drip		
	5	No Melt/Drip		

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	A	Lot Avg	Requirements
Vertical Flame FTMS 191 5903.1 Warp			
After Flame			
1	0.0		
2	0.0		
3	0.0		
4	0.0		
5	0.0		
	0.0	0.0	1 sec max
After Glow			
1	3.3		
2	3.3		
3	3.5		
4	3.0		
5	3.2		
	3.3	3.3	25.0 sec max
Char Length			
1	1.6		
2	1.6		
3	2.2		
4	1.6		
5	1.8		
	1.8	1.8	5.0 in max

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	A	Lot Avg	Requirements
Vertical Flame FTMS 191 5903.1 Warp			
Melt/Drip			
1	No Melt/Drip		
2	No Melt/Drip		
3	No Melt/Drip		
4	No Melt/Drip		
5	No Melt/Drip		
Vertical Flame FTMS 191 5903.1 Warp 5X			
After Flame			
1	0.0		
2	0.0		
3	0.0		
4	0.0		
5	0.0		
	0.0	0.0	1 sec max
After Glow			
1	17.5		
2	12.2		
3	15.6		
4	17.1		
5	15.0		
	15.5	15.5	25.0 sec max

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		A	Lot Avg	Requirements
Vertical Flame FTMS 191 5903.1 Warp 5X				
Char Length				
	1	3.0		
	2	2.2		
	3	2.0		
	4	2.1		
	5	1.8		
		2.2	2.2	5.0 in max
Melt/Drip				
	1	No Melt/Drip		
	2	No Melt/Drip		
	3	No Melt/Drip		
	4	No Melt/Drip		
	5	No Melt/Drip		
Weight FTMS 191 5041 (oz/yd²)				
Weight oz/yd²				
	1	5.2		4.7 - 5.7 oz/yd2

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A

Lot Avg Requirements

I certify that the preceding tests were performed in accordance with the specification test requirements and that the reported test results are true, valid, and applicable to the sample tested.

I certify that the test results in this report represent the testing performed on the samples listed above which represent the yardage stated in the header.

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